

Subject: Re: Pattern generation mode on X6-400M
From: Tech Support <techsprt@innovative-dsp.com>
Date: 2/4/2015 2:11 PM
To: Kevin Kloke <KKloke@csir.co.za>

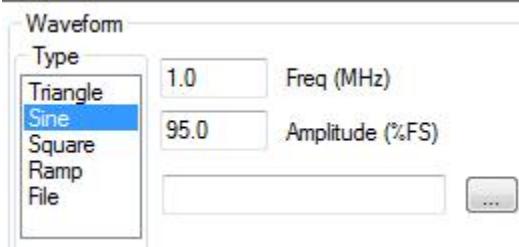
Hi Kevin,

This explanation is from our firmware designer/manager:

Pattern mode means the host loads waveforms to the on-board memory and then just play them back from memory with any number of repetitions and jumps in between patterns as specified in the commands. The Arb application software has some predefined patterns (sine, square, triangle, ...) and also allows the use of a user defined pattern in a file.

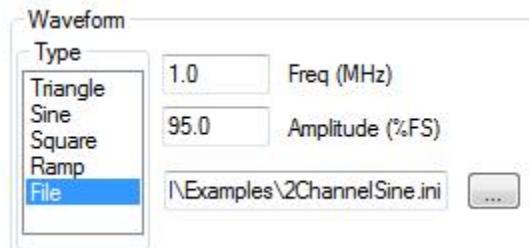
The Arb.exe example program uses pattern mode.

Select the type of waveform:



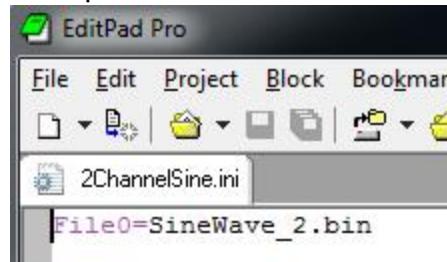
If you use Waveform Type = File, choose a file.ini file, not a file.bin file. The ini file contains the .bin files used.

Arb.exe setup:



Example ini files are located in the root folder C:\Innovative\X6-400M\Examples

Example ini file contents:



Set the Base Address to 0x0 and Pattern Size to 0x1000 for the first pattern.

Give the pattern a name with Pattern Label.

Select Load Pattern.

Click the Execute command button.

The pattern will load to the memory.

Pattern Information	
Base Address	Tag Value
0x0	2
Pattern Size (Events)	Repetition Count
0x1000	10
Pattern Label	
Sine 1MHz	

Mode
Play Pattern
Load Pattern
Replay Pattern
Halt Pattern

Repeat
<input checked="" type="checkbox"/> Enable

Execute

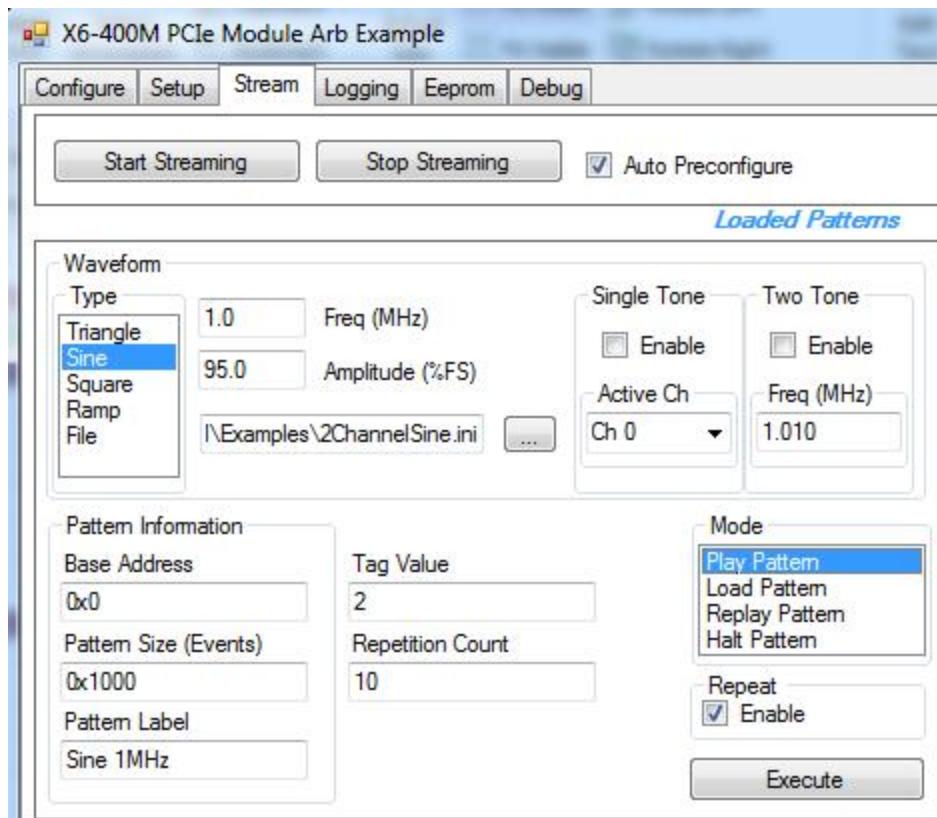
The patterns loaded are listed in the open frame next to the Waveform frame. You can delete them or clear all of them in that frame.

Delete

Clear All

Select "Play Pattern" or "Replay Pattern".

Enable Repeat if desired.



Play the selected pattern with this sequence:

1. Click "Start Streaming",
2. Click "Execute",
3. Click "Software Trigger" in the upper - right section of Arb.exe GUI,

Stop the selected pattern with this sequence:

1. Click "Stop Streaming", .

I don't think you need to use "Halt Pattern" and on some products this caused problems. Try this to see if it is necessary.

I hope this helps.

Thanks,

Ron

On 2/4/2015 2:46 AM, Kevin Kloke wrote:

Hi

Can you please send me some information on the Pattern generation mode of the X6-400M, from the user manual it is not clear exactly what one can setup and what the limitations are?

I would specifically like to see an example of a software-defined pattern that can be played out

from the buffer memory. Is this a separate mode to framed or PRI mode?

Kevin Kloke
Senior Engineer
CSIR DPSS Radar Applications
Tel : 0027 12 841 4848
Fax: 0027 12 841 2455
Cell : 0027 83 699 8671
Email: kkloke@csir.co.za

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